Item 13 - Completion Procedure Pioneer Federal Com No. 1 Fage 4

- O7/28/91 Drilled 10' cmt, CIBP/scraper run/set Uni-VI. Finished RU snubbing equipment. Kill lines, flare lines, gas separator. Raised operator console on snubbing floor. Tested to 1000 psig low - 4000 psig high. Btm blind & pipe rams. Top blind & pipe rams. Hydril. Stand pipe & kelly hose. All flanged valves. Flare line to chk. Released Baker storm pkr @ 40'. L/D pkr. Drilled cmt from 7830'-7985'. PU. SI & secured well for night.
- 07/29/91 0 psig on well. Changed out packing in swivel. Drilled cmt from 7985'-7996'. CIBP from 7996'-7996 1/2'. Well flowing. PU. SI 500 psig on csg. Bullheaded 130 bbls down annulus @ 3700 psig 1 bbl/min. SD pump. Pressure dropped to 600 psig. Chk for trapped pressure. Waited on 2" manual chk. Installed on return line going to gas separator. Tested to 4000 psig. Had packing on swivel blow @ 2500 psig while testing. Changed out. Blew @ 1000 psig (Star Tool equipment). RU Halliburton on 2 3/8" tbg. Found circulating kill rate @ 1150 psig @ 2 BPM. Layed down swivel. SI well for night. 600 psig on csg.
- 07/30/91 Opened up well. 350 psig on 4 1/2" csg. PU power swivel. Drilled remaining CIBP from 7996'-7997'. Held 350 psig on back pressure on chk while drilling. Well did not flow. 10' flare after btms up. 3' flare after drilling plug (2 1/2 hrs to drill remaining plug). L/D power swivel. RIH to 10,658' w/remaining 2 3/8" tbg in derrick. Pressure @ 640 psig. Attempted to kill well. Pumping down tbg w/rig pump @ rate of 2 BPM @ 1500 psig holding 650 psig of back pressure. 10' flare @ btms up. Circ all gas out. SI @ 440 psig built to 640 psig in 30 mins. Pumped 10 bbls of fluid into formation. Attempted to kill on second operation by pumping down 2 3/8" tbg @ rate of 1800 psig, 2 BPM. Holding 950 psig back pressure. Lost 110 bbls to formation. Shut down pumps.
- 07/31/91 Opened well 1640 psig on csg. RU Halliburton on 2 3/8" tbg. Pumping down tbg @ a rate of 2 BPM @ 1200 psig w/11.5# CaCl2 wtr. Holding 1500 psig on chk. Bypassed gas separator due to high gas rate. After pumping 45 bbls of 11.5# CaCl2 well began flowing condensate. Switched back into separator. Returns flowing into steel pit. Holding 1100 psig on chk (4/64")-30' flare. Pumped total of 138 bbls of 11.5# CaCl2 inside annulus. Well flowing 10# & condensate. Had mud engineer check returns. Showed weighing 10#, 350,000 cc No 11.5# CACl2 to surface. Flowed 68 bls of fluid into pit while killing well. SD Halliburton pump. Well flowing @ 1/2 BPM. SI. Built to 220 psig in 18 mins. PU laying down 14 jts of 2 3/8" tbg. Btm @ 10,269'. WO